

301499.3000-100
MINIATURE ENDOSCOPE WITH
IMAGING FIBER SYSTEM
By: Paul Remijan et al.

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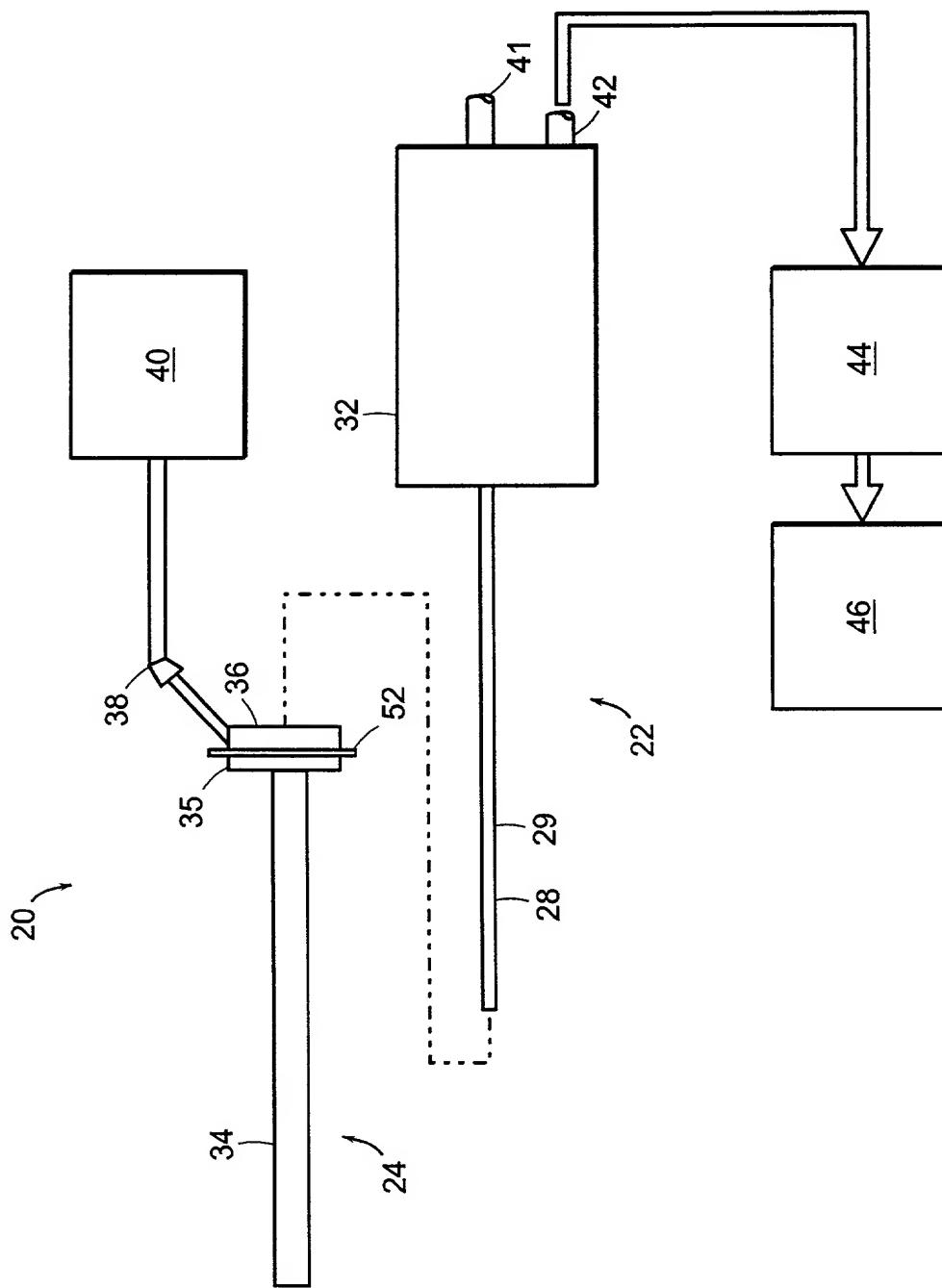
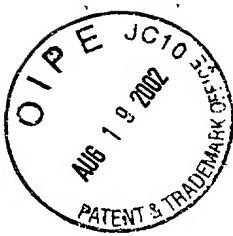


FIG. 1



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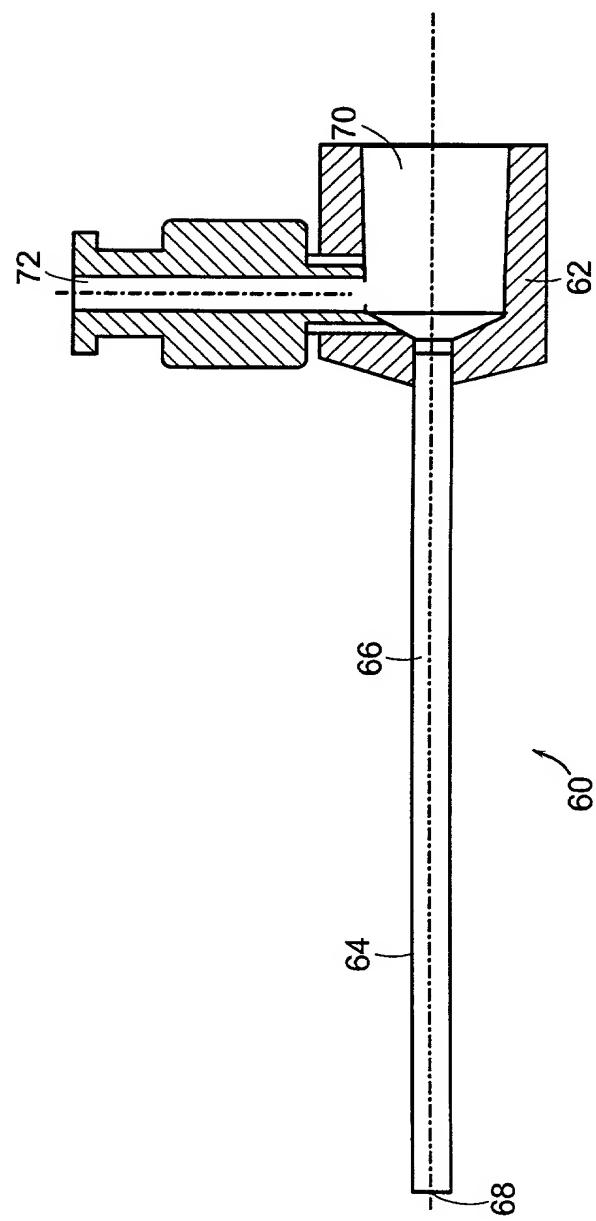
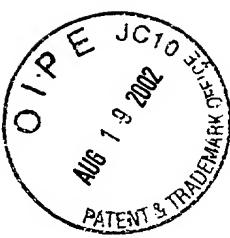


FIG. 2



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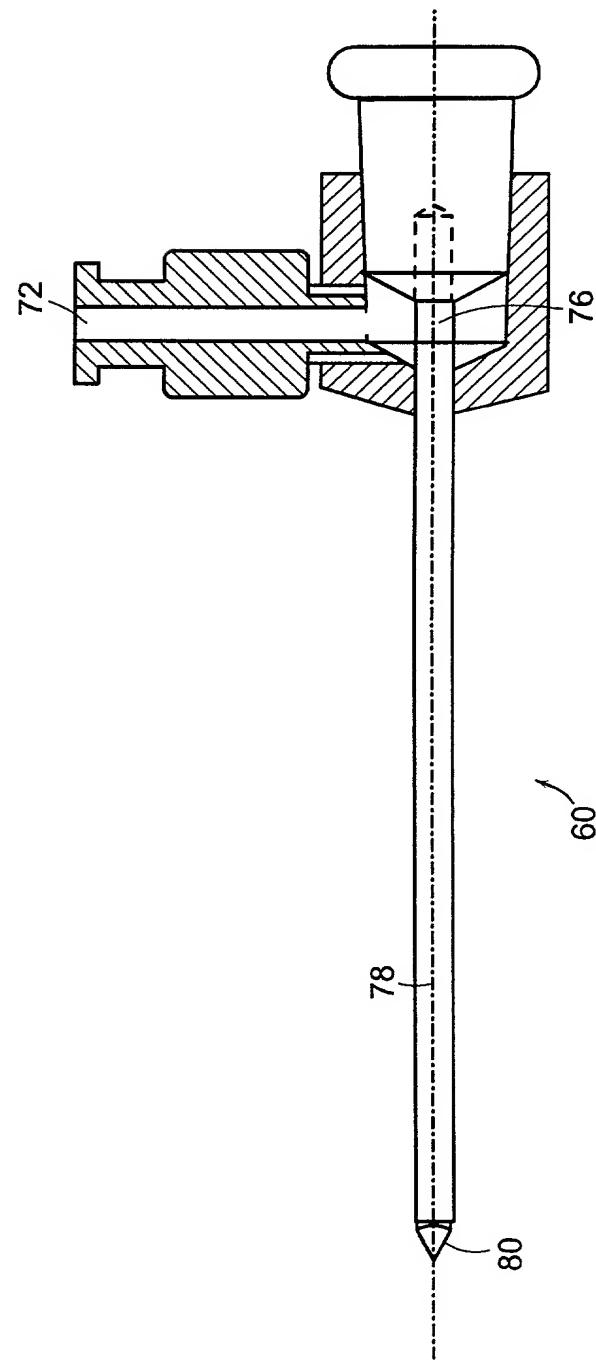
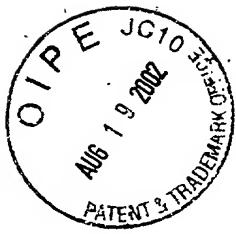


FIG. 3



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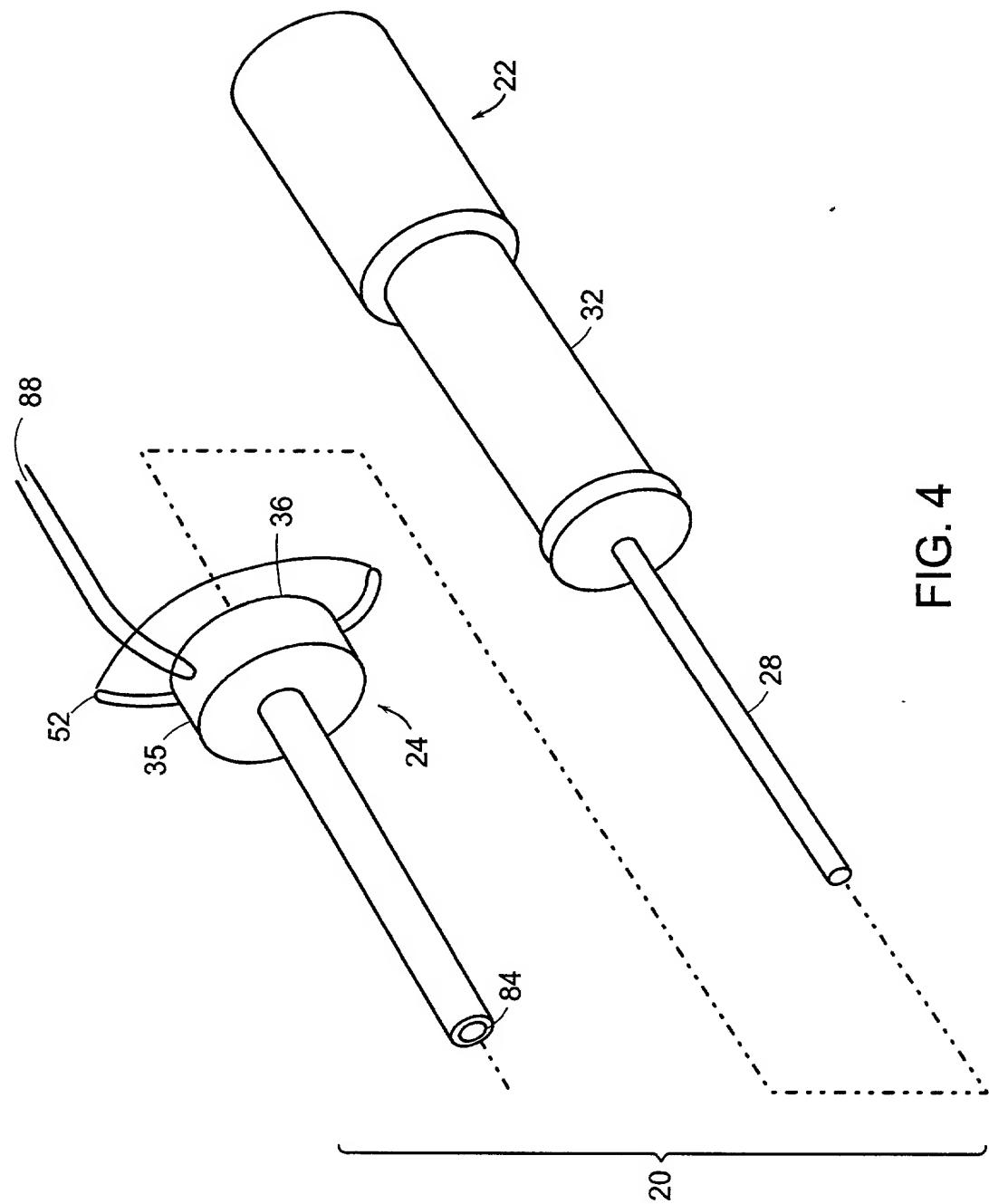


FIG. 4



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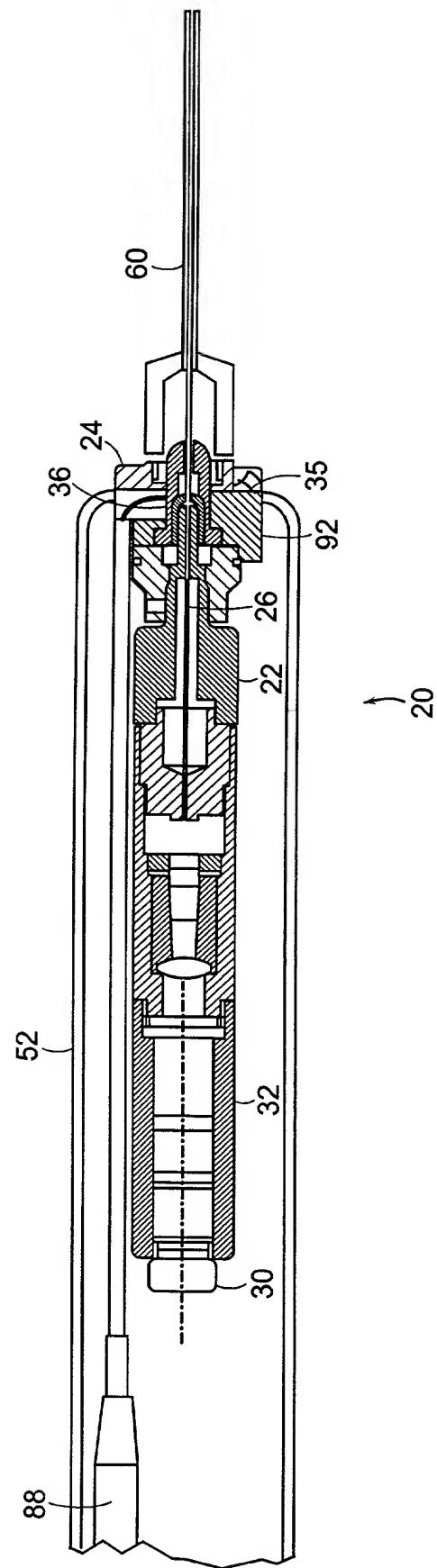
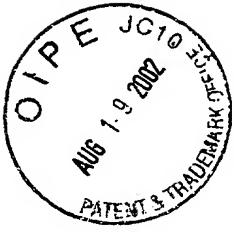


FIG. 5



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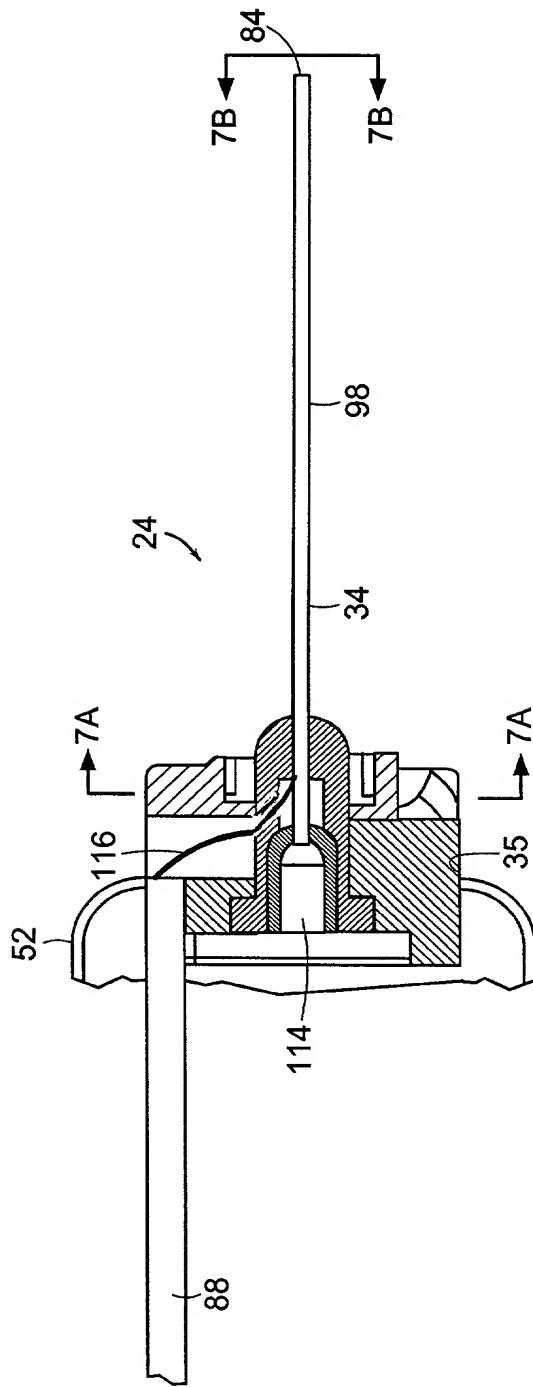


FIG. 6A

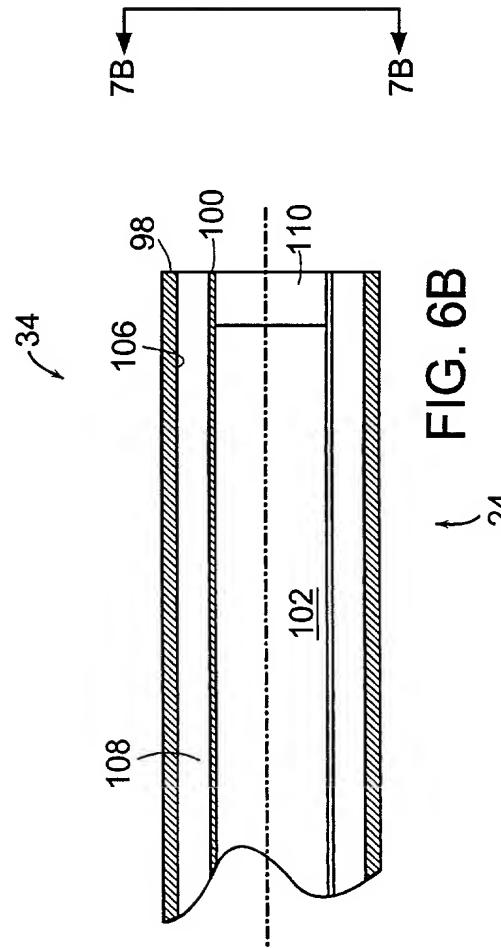
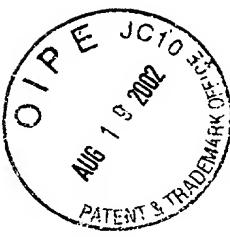


FIG. 6B



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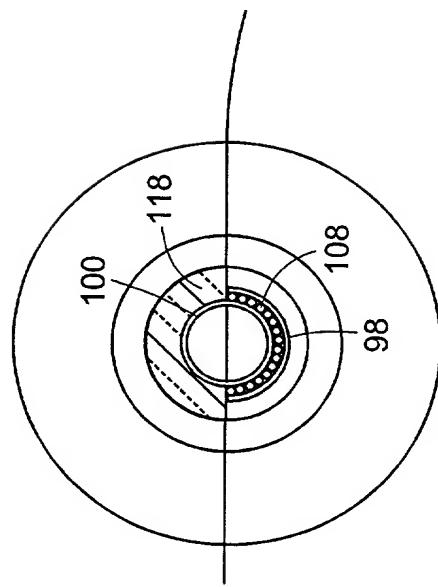


FIG. 7A

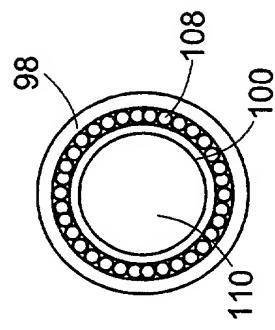


FIG. 7B

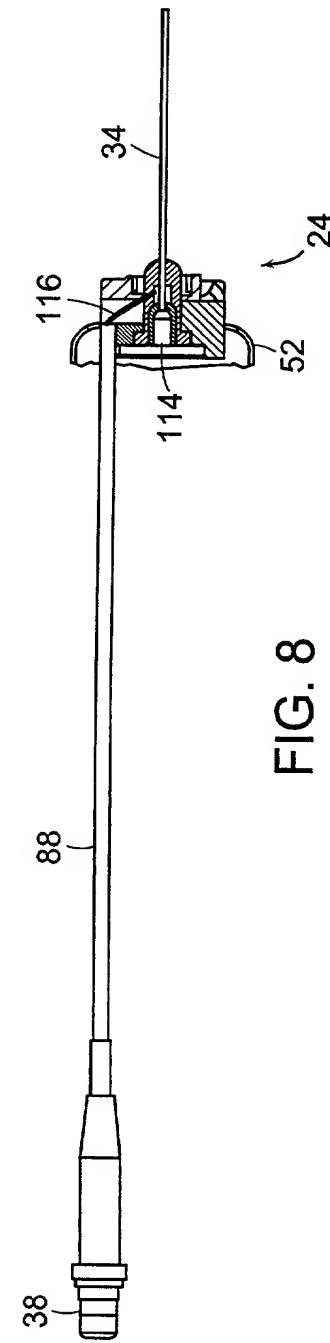


FIG. 8



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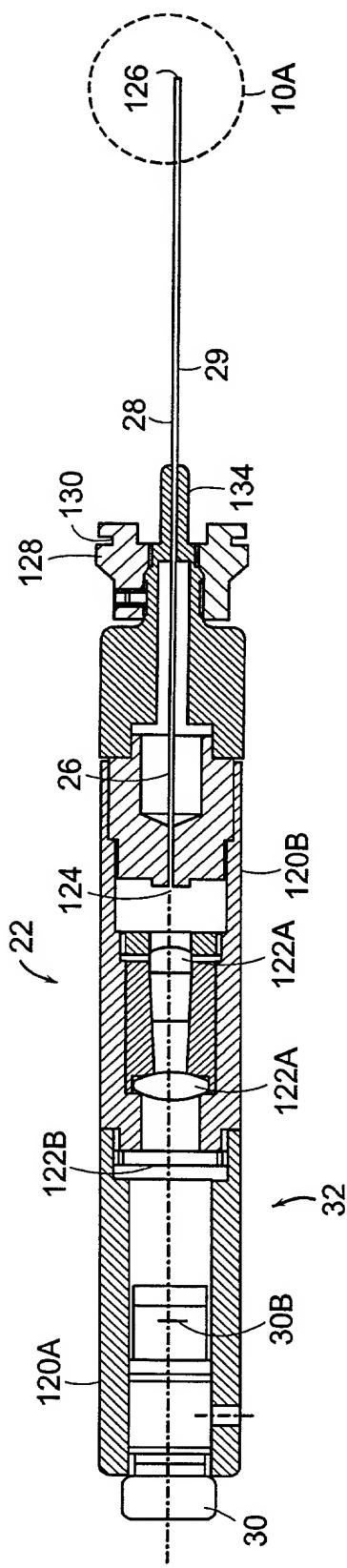
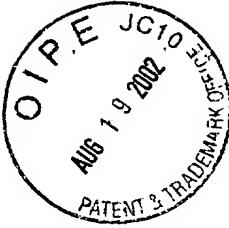


FIG. 9



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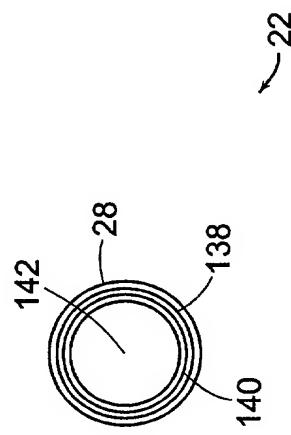
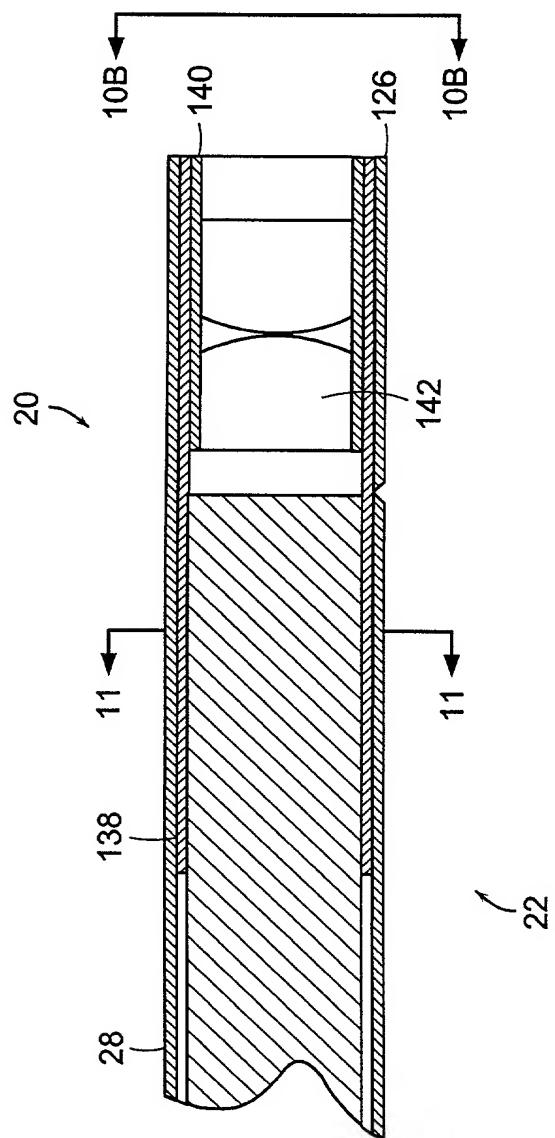
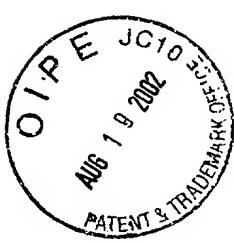


FIG. 10A

FIG. 10B



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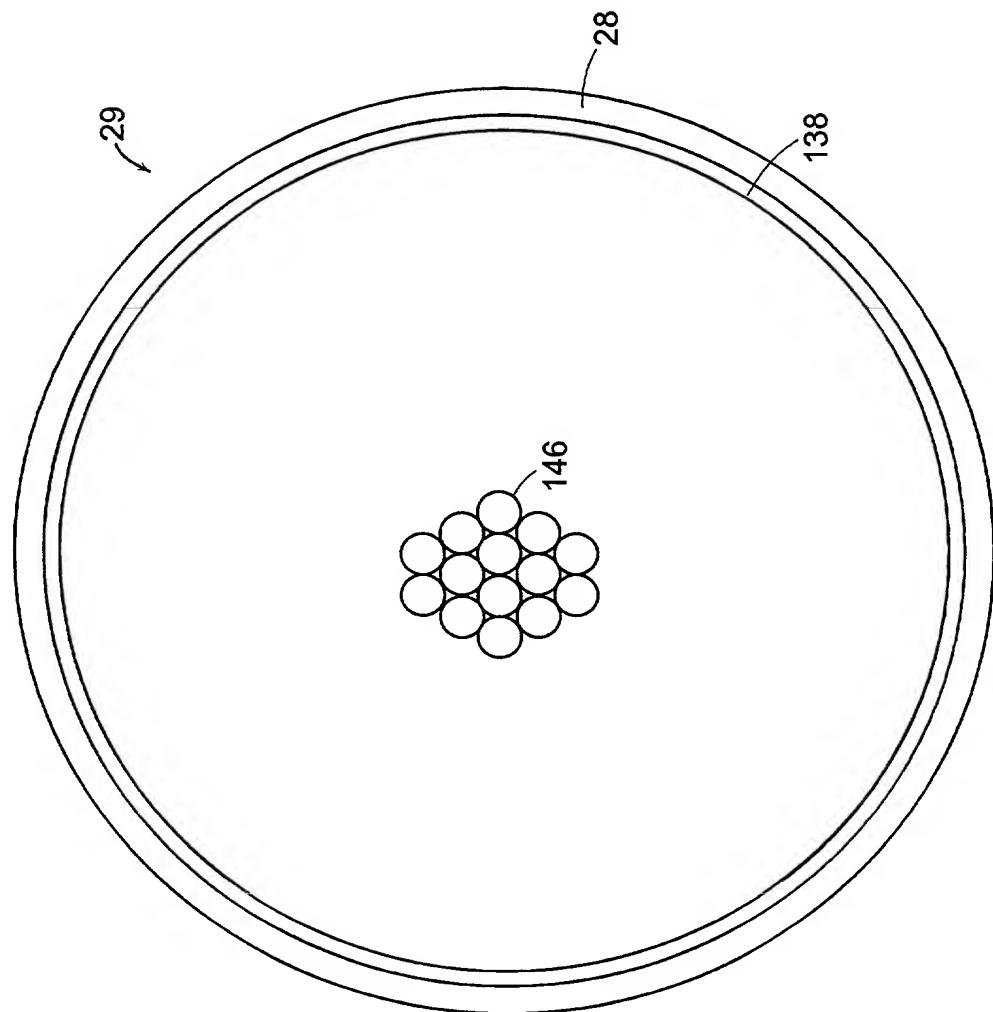
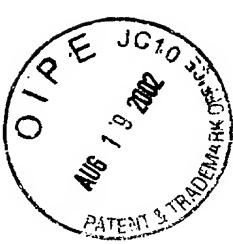


FIG. 11



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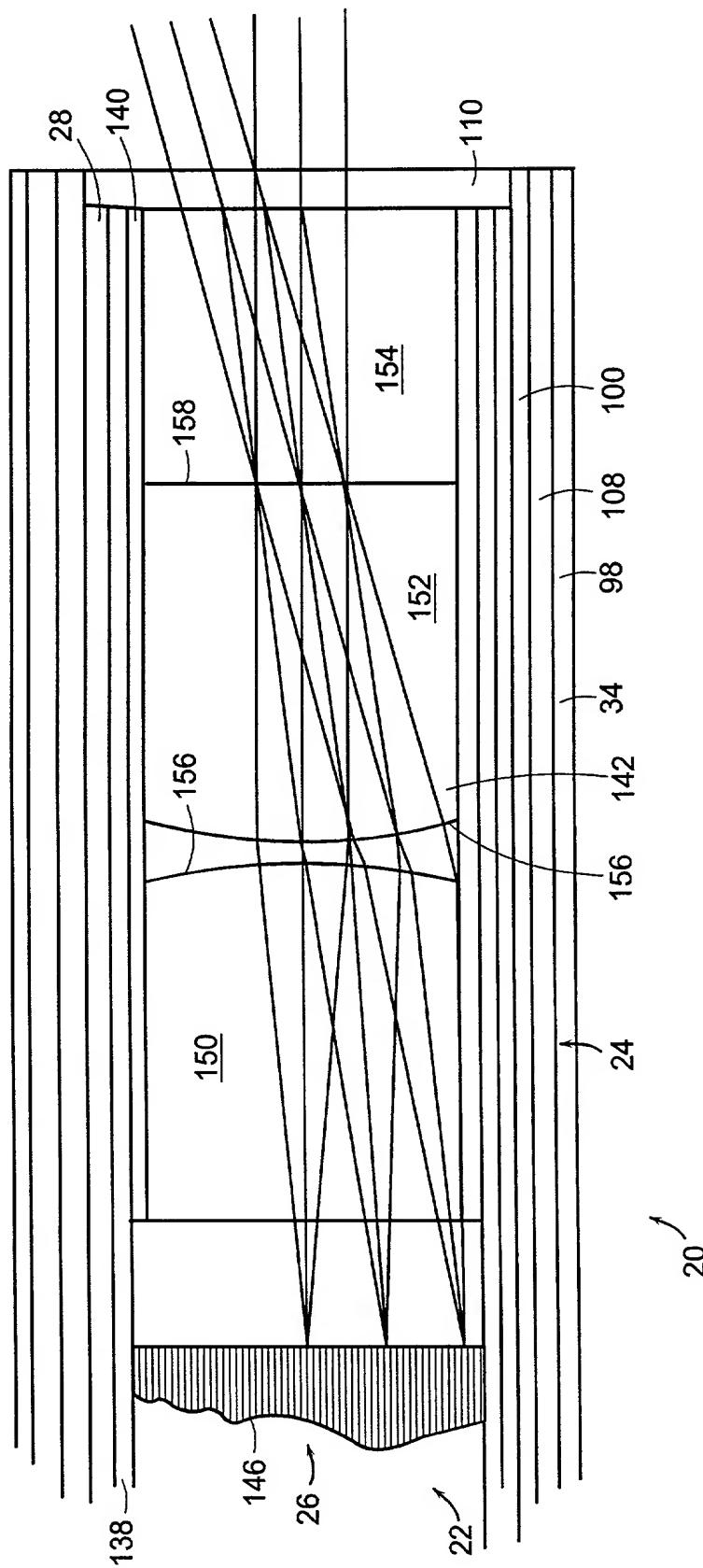
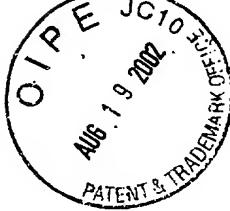


FIG. 12



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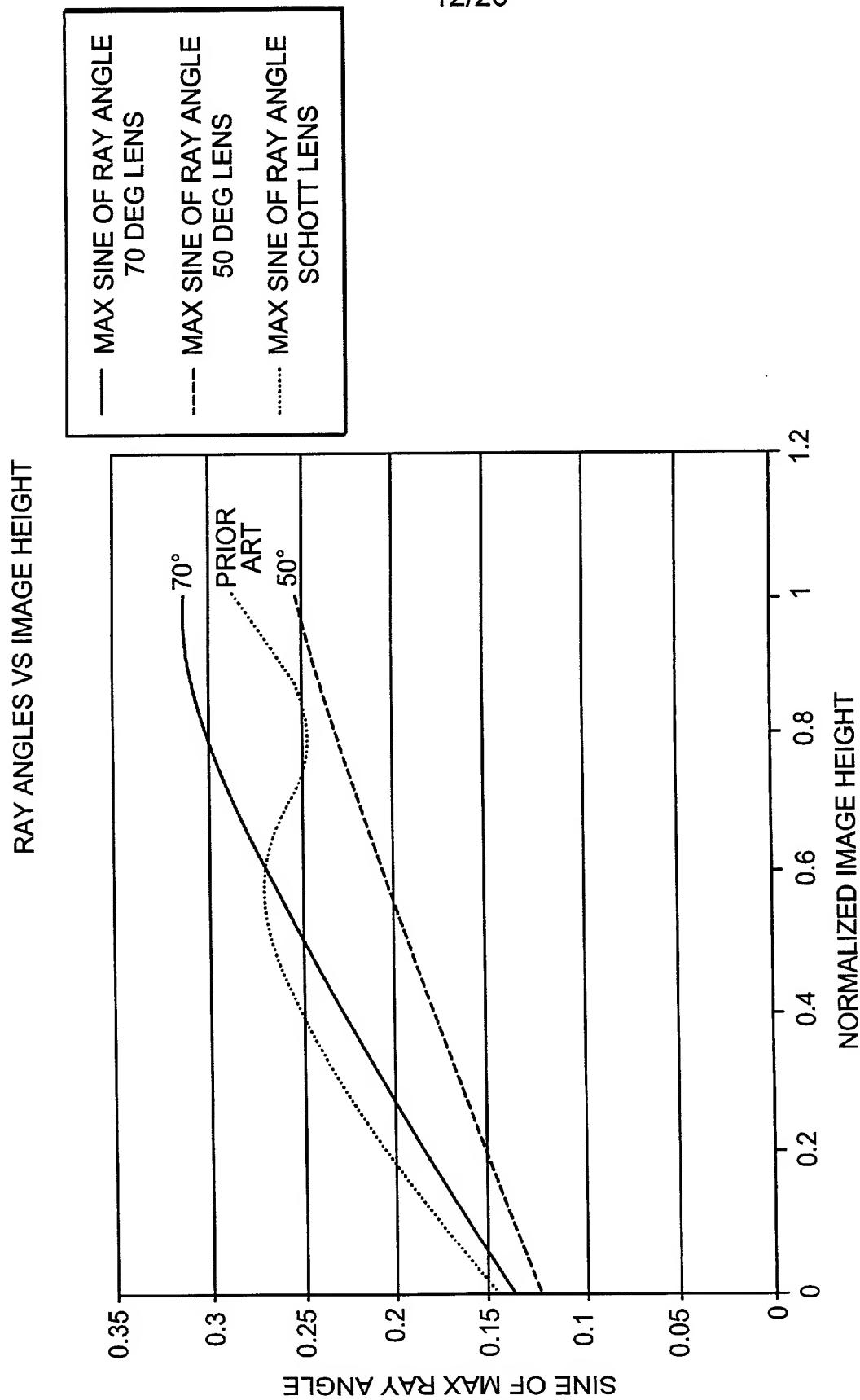
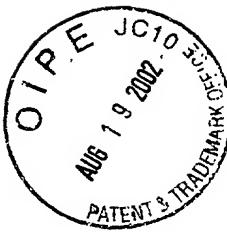


FIG. 13



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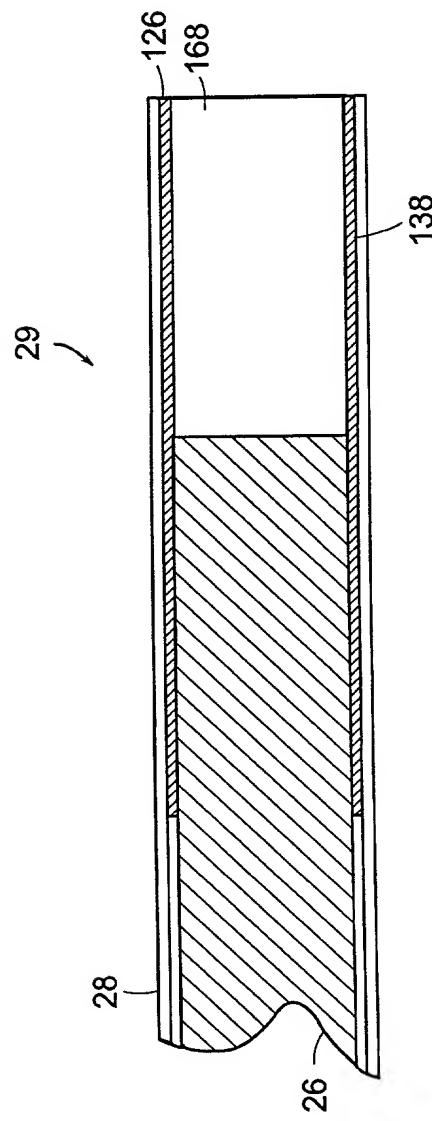
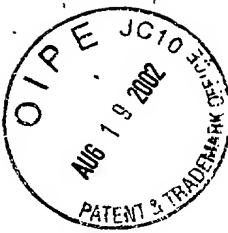


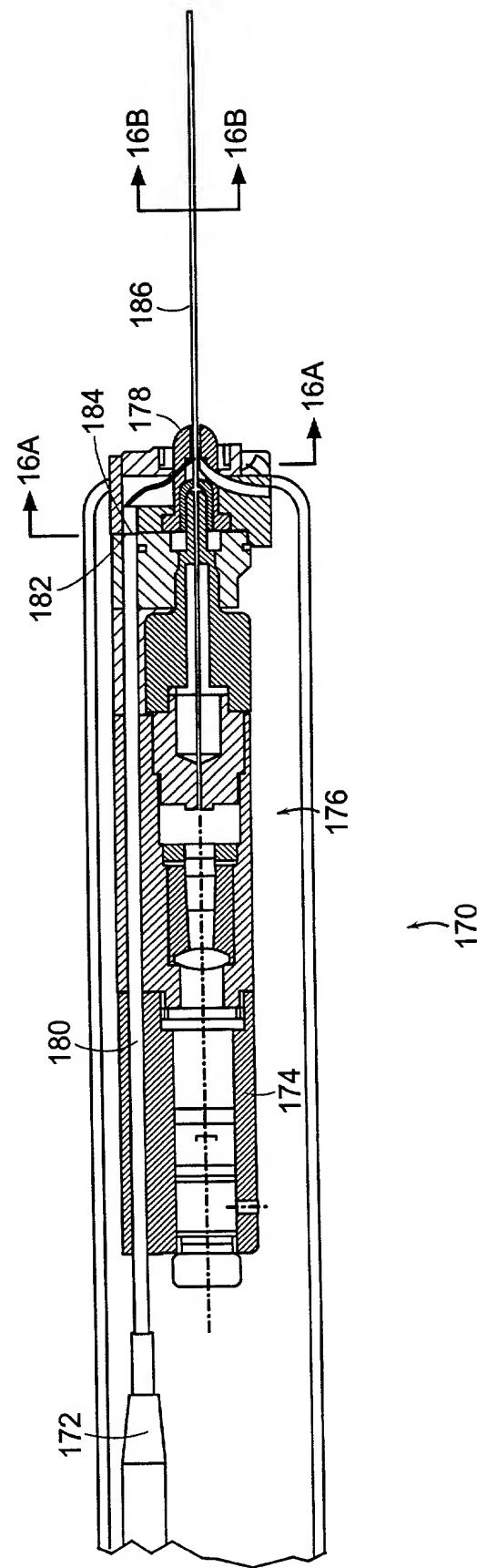
FIG. 14

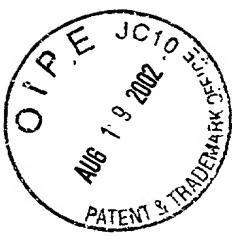


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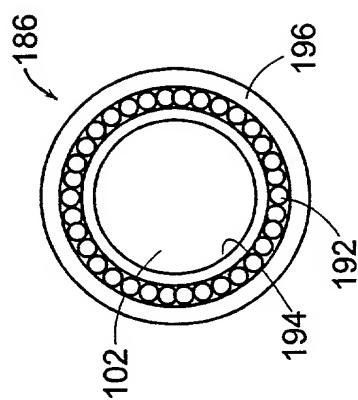


FIG. 16B

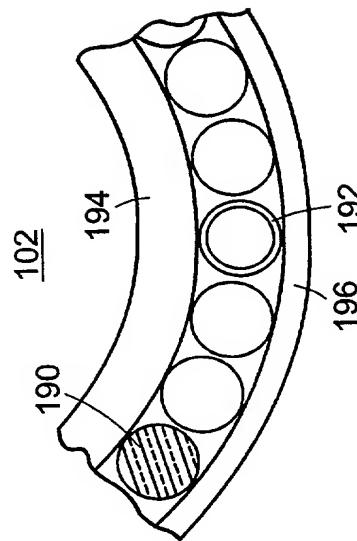


FIG. 16C

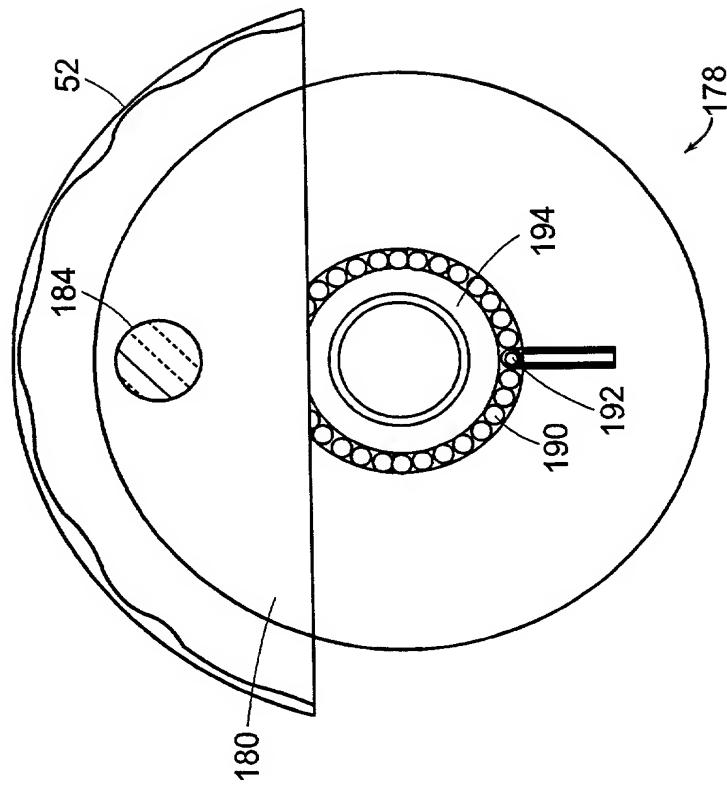
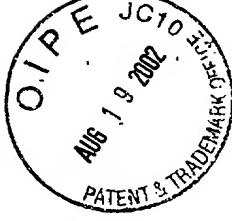


FIG. 16A



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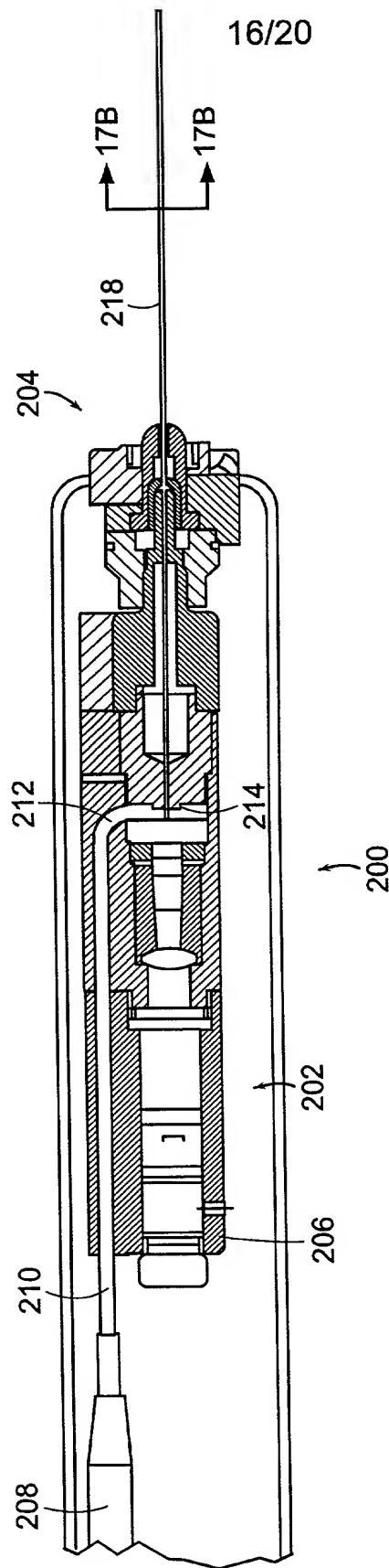
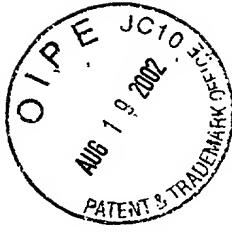


FIG. 17A



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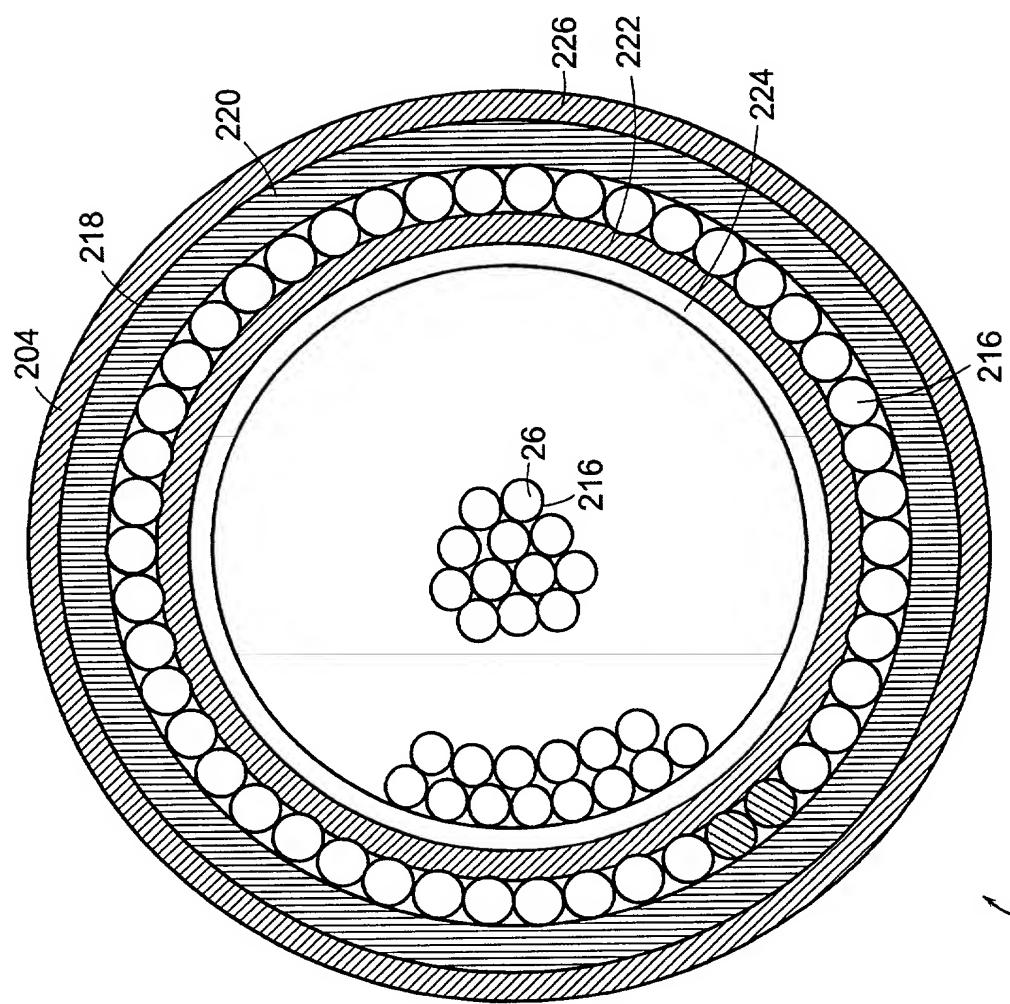
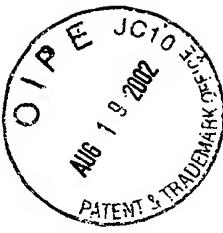


FIG. 17B



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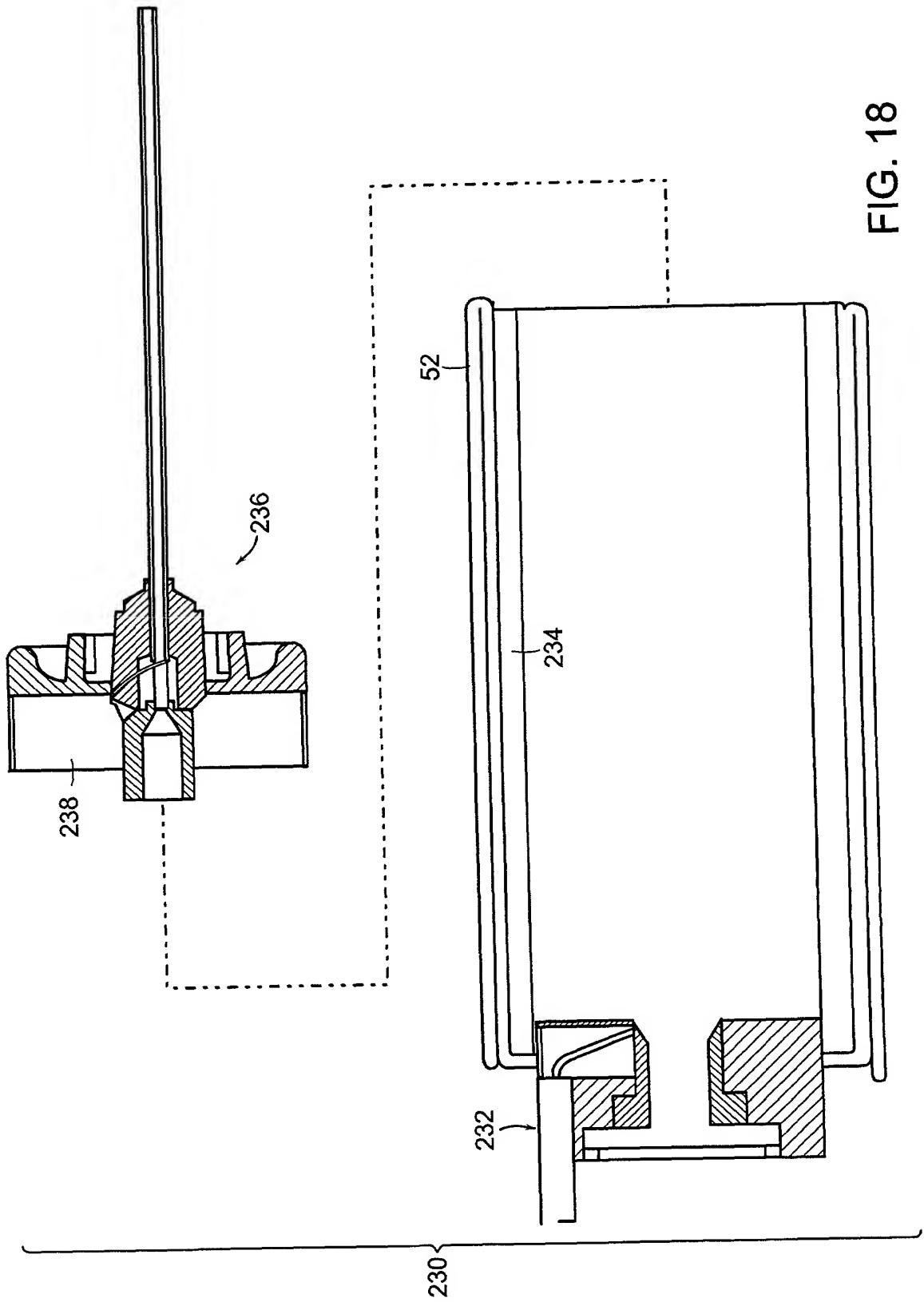
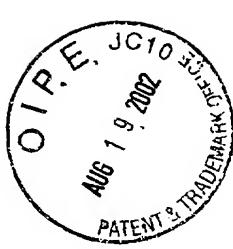


FIG. 18



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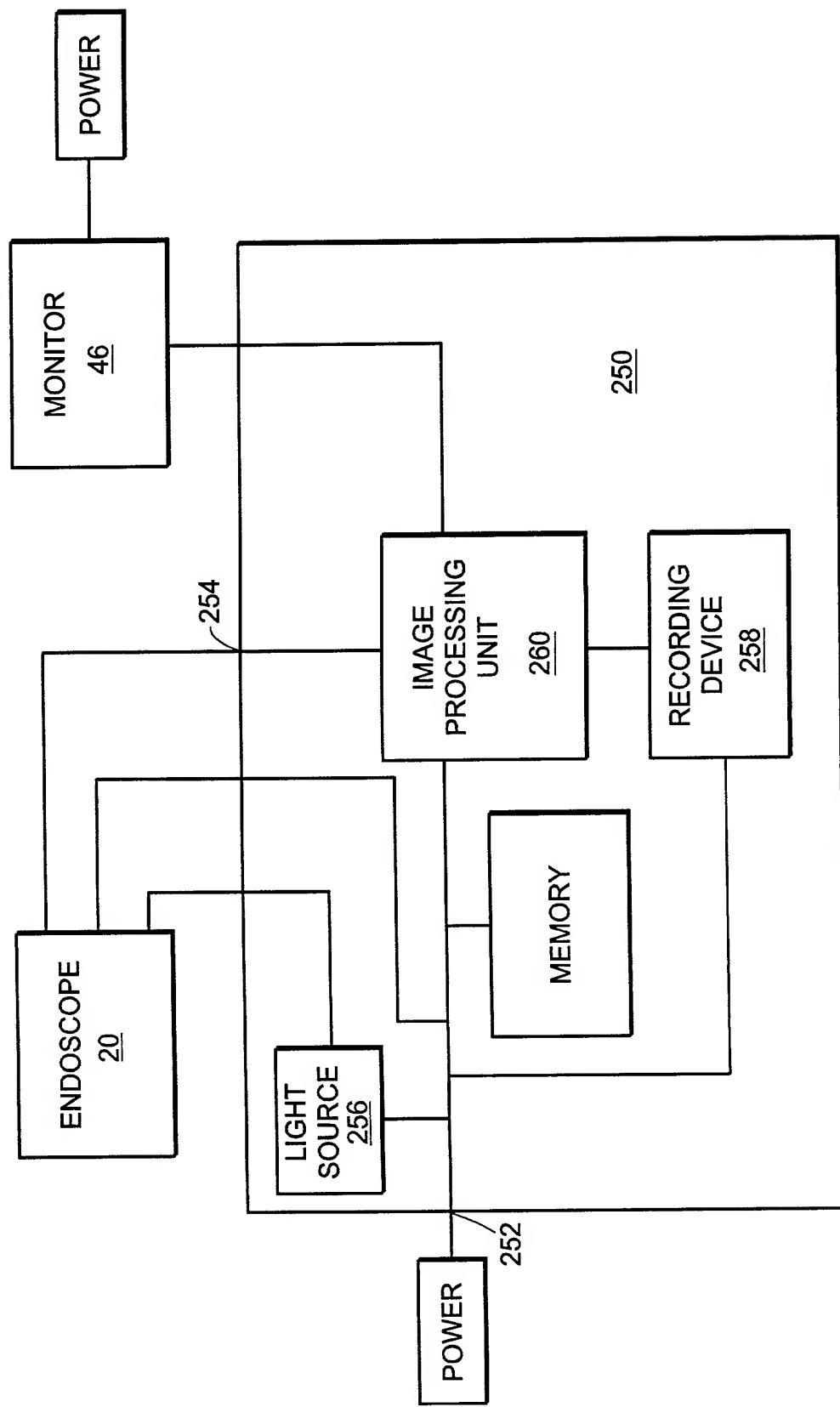
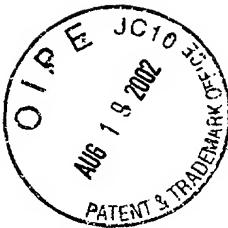


FIG. 19



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USER EXTENDS SHEATH OVER
HANDLE AND INSERTS
CANNULA/TROCAR AT OPERATIVE
SITE
272

TROCAR IS REMOVED AND
SHEATHED PROBE INSERTED INTO
CANNULA
274

ILLUMINATION SYSTEM IS
ACTUATED AND IMAGING SENSOR
RECORDS VIDEO OF SITE
276

OPTIONALLY PERFORM PROCEDURE
AT OPERATIVE SITE
278

RECORD IMAGE SEQUENCE ON
MEMORY DEVICE
280

CONCLUDE PROCEDURE AND
DISPOSE OF SHEATH ASSEMBLY
282

ATTACH NEW SHEATH ASSEMBLY
TO PROBE AND REUSE
284

FIG. 20